

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A disk loading apparatus for a disk drive, comprising:

a main body; and

a tray including a disk-seating portion configured to be rotated inside and outside the main body about a center of rotation located at one side of the main body; and

a disk guide unit provided on the tray and the main body and configured to cause a disk to be loaded and unloaded according to a rotating motion of the tray, wherein for at least a portion of the movement of the tray from a closed position to an open position, a disk-loading position determined by the disk guide unit is configured to move relative to the tray.

2. (Currently Amended) The disk loading apparatus as claimed in claim 1, further comprising a drive unit configured to rotate the tray, wherein the drive unit comprises:

a driving motor configured to be mounted on a main base and rotate in a forward or reverse direction; and

a power transmission unit configured to transmit driving force from the driving motor to the tray, wherein the power transmission unit comprises at least one gear.

3-4. Canceled

5. (Currently Amended) The disk loading apparatus as claimed in claim 4, further comprising a rack gear having a predetermined radius of curvature formed on a bottom surface of the tray and configured to engage with the driving gear of the power transmission unit.

6. (Original) The disk loading apparatus as claimed in claim 1, wherein the center of rotation of the tray is located at a front end of the main body.

Reply to Office Action of June 28, 2006

7. (Original) The disk loading apparatus as claimed in claim 6, wherein the tray is in the form of a sector of which a center point acts as the center of rotation of the tray.

8. (Currently Amended) The disk loading apparatus as claimed in claim 1, wherein a predetermined gap is formed between the tray and the main body on a side of the tray ~~on which adjacent~~ the center of rotation is located.

9. (Currently Amended) The disk loading apparatus as claimed in claim 1,
~~further comprising:~~

~~a disk guide unit provided on the tray and the main body and configured to cause a disk to be loaded and unloaded according to a rotating motion of the tray wherein the tray comprises,~~

a leading end guide formed to extend along a leading end of the tray; and
a trailing end guide formed to extend at a predetermined angle with respect to a side edge of the tray.

Reply to Office Action of June 28, 2006

10. (Original) The disk loading apparatus as claimed in claim 9, wherein the center of rotation of the tray is located at a front end of the main body.

11. (Currently Amended) The disk loading apparatus as claimed in claim 9, wherein the disk guide unit comprises:

~~a leading end guide formed to extend along a leading end of the tray;~~
~~a trailing end guide formed to extend at a predetermined angle with respect to a side edge of the tray; and~~
first and second side guides formed on both sides of the main body.

12. (Original) The disk loading apparatus as claimed in claim 11, wherein the first side guide comprises a slant portion configured to facilitate entrance of the disk into the disk drive formed at a front end thereof.

13. (Currently Amended) The disk loading apparatus as claimed in claim 10, further comprising an interference prevention portion configured to prevent interference of the leading end of the tray ~~with~~ and provided at the front end of the main body adjacent the center of rotation of the tray.

14. (Currently Amended) The disk loading apparatus as claimed in claim 9, wherein the disk guide unit comprises:

~~leading and trailing end guides formed to face each other at leading and trailing ends of the tray, respectively,~~

first and second side guides formed on both sides of the main body; and a guide slot formed in a door provided at the leading end of the tray and configured to allow the disk to protrude outside the tray.

15. (Original) The disk loading apparatus as claimed in claim 14, wherein the first side guide comprises a slant portion configured to facilitate entrance of the disk into the disk drive formed at a front end thereof.

16. (Original) The disk loading apparatus as claimed in claim 14, wherein the disk-seating portion is formed such that all portions except the guides are flat up to edges of the tray.

Reply to Office Action of June 28, 2006

17. (Original) The disk loading apparatus as claimed in claim 14, wherein the second side guide is configured to protrude from one side of the main body toward the first side guide by a predetermined distance.

18. (Original) A disk drive comprising the disk loading apparatus of claim 1.

19. (Original) A disk loading apparatus for a disk drive, comprising:
a main body; and
a tray rotatably coupled to a shaft formed on a corner of the main body so that the tray is horizontally rotatable about the shaft in a plane parallel to a top surface of the main body, wherein the tray comprises,

a leading end guide formed to extend along a leading end of the tray,
and

a trailing end guide formed to extend at a predetermined angle with
respect to a side edge of the tray.

Reply to Office Action of June 28, 2006

20. (Currently Amended) The disk loading apparatus as claimed in claim 19, further comprising a drive unit configured to rotate the tray, wherein the drive unit comprises:

a driving source provided on one side of the main body; and
a power transmission unit configured to transmit power from the driving
source to rotate the tray.

21. Canceled

22. (Currently Amended) The disk loading apparatus as claimed in claim 21 20, further comprising a rack having a predetermined radius of curvature formed on a bottom surface of the tray and engaged with a driving gear of the power transmission unit.

23. (Currently Amended) The disk loading apparatus as claimed in claim 19, wherein the shaft is formed on a front corner of the main body, wherein the tray is in the shape of a sector.

24. (Original) The disk loading apparatus as claimed in claim 19, wherein the tray includes a disk-seating portion formed in a bottom surface thereof.

25-26. Canceled

27. (Currently Amended) The disk loading apparatus as claimed in claim 26 19, wherein the main body includes first and second side guides formed at both inner sides thereof to extend from a front end to a rear end of the main body.

28. (Original) A disk drive comprising the disk loading apparatus of claim 19.

29. (New) The disk loading apparatus as claimed in claim 27, wherein at least one side guide comprises a recessed portion, a protruding portion or a slanted portion.

30. (New) The disk loading apparatus as claimed in claim 19, wherein for at least a portion of the movement of the tray from a closed position to an open position,

a disk-loading position on the tray determined by at least one of the leading guide and the trailing end guide is configured to move relative to the tray.

31. (New) The disk loading apparatus as claimed in claim 19, wherein a distance between the leading end guide and the trailing end guide is equal to or greater than a diameter of a loadable disk, and wherein the predetermined angle is between zero and ninety degrees.

32. (New) The disk loading apparatus as claimed in claim 9, wherein a guide slot formed along the leading end of the tray and is configured to allow the disk loading position to protrude outside the tray.

33. (New) The disk loading apparatus as claimed in claim 13, wherein the interference prevention portion is an opening, recess, slot or indentation formed in side guides.

34. (New) A disk loading apparatus for a disk drive, comprising:
a main body;

a tray including a disk-seating portion configured to be rotated inside and outside the main body about a center of rotation located at one side of the main body;

a disk guide unit provided on the tray and the main body and configured to cause a disk to be loaded and unloaded according to a rotating motion of the tray, wherein the center of rotation of the tray is located at a front end of the main body; and

an interference prevention portion configured to prevent interference of a leading end of the tray and provided at the front end of the main body adjacent the center of rotation of the tray.

35. (New) The disk loading apparatus as claimed in claim 34, wherein the interference prevention portion is an opening, recess, slot or indentation formed in side guides.

36. (New) The disk loading apparatus as claimed in claim 35, wherein the interference prevention portion allows a rotary shaft for the center of rotation to be adjacent to the sidewall.